



MARK-UP COPY OF AMENDED CLAIMS

- 1 11. (AMENDED) A method of designing a roller cone drill bit, the
2 steps of comprising:
3 (a) calculating the force balance conditions of a bit;
4 (b) defining design variables;
5 (c) determine lower and upper bounds for the design variables;
6 (d) defining objective functions mathmatically as a function of said
7 design variables;
8 (e) defining constraint functions mathmatically as a function of said
9 design variables;
10 (f) performing an optimization means; and,
11 (g) evaluating an optimized cutting structure by modeling.

Please cancel Claims 1-10 and 12-13.

FEDERAL REGISTER

REMARKS

The claims have now been cancelled which were allowed in the parent application and additional dependent claims have been added.

A first Office Action is respectfully awaited. The Examiner is cordially invited to telephone the undersigned attorney or agent if it appears that an interview might be useful for any reason.

Respectfully submitted,



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